

Date: Sun, 2 Jan 94 04:30:15 PST
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V93 #160
To: Ham-Ant

Ham-Ant Digest Sun, 2 Jan 94 Volume 93 : Issue 160

Today's Topics:

 Commercial Antenna Tuners
 Radials for Ground-Mounted Verticals
 Wanted- Antenna Mast

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 2 Jan 94 03:41:35 EST
From: usc!howland.reston.ans.net!noc.near.net!news.delphi.com!
usenet@network.ucsd.edu
Subject: Commercial Antenna Tuners
To: ham-ant@ucsd.edu

Charles --

I've heard the "Mighty Fine Junk" references, and they are accurate in
relation to some MFJ products, such as their 2 meter 5/8 wave antenna, but not
with respect to the tuners -- at least in my experience. I'm on my second MFJ
tuner, this one being the MFJ-986 that you referred to. With it, I have no
problem loading a twin-lead fed 80 meter inverted V on everything from 160 to
10 meters. Depending on the length of your feed line, it can take some
tweaking (on parts of 20 meters, I can't get below about a 1.5:1 SWR no matter
what),
but it has been very reliable and lot of Europeans can't believe I'm running
barefoot.

73 de Lee/KE3FB in Md.
leevankoten@delphi.com

Date: 1 Jan 1994 22:05:29 GMT
From: usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!wvanhorn@network.ucsd.edu
Subject: Radials for Ground-Mounted Verticals
To: ham-ant@ucsd.edu

>gary@ke4zv.atl.ga.us (Gary Coffman) wrote:

>220 66 foot radials laid out on the snow will work wonderfully well.
>That's a broadcast quality ground screen. You should be able to get
>by with 16 however for amateur quality. Actual contact with the ground
>isn't necessary, and the length needs to be a quarterwave at the lowest
>frequency you're going to operate. Just arrange them like the spokes of
>a wheel with the antenna in the center.

Gary -

What you advise is time-honored and certainly does work "wonderfully well." But in QST, March, 1993, "Technical Correspondence", p. 72, Al Christman, KB8I, presents information that, if verified, will surely overturn 75 years of "conventional wisdom". In a letter titled: "More on Elevated Radials", he gives the results of computer studies using NEC software indicating that as few as 4 radials, elevated 10 feet above the ground, are as effective as 120 lying on, or under, the ground!

His letter summarized work that he and a collaborator, Radcliffe, reported in a formal paper printed in IEEE TRANSACTIONS ON BROADCASTING, September, 1991, pp. 77-82. In that paper, they modeled a broadcast-frequency tower ground-mounted; the coax feed-point was at ground level, and the radials rose at 45-degree angle to the 10-feet height, extending at that height for one-quarter wavelength. In his QST letter, KB8I reported extending the work to the 80-meter ham band. He found that, at that frequency, results were nearly as good with the radials raised no higher than 4 or 5 feet above ground.

In your recent posting did you consider this alternative, or don't you believe it?

73, Van - W8UOF

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* It ain't wot you don't know 't gets you into trouble. *
* It's wot you know 't ain't true. - "Mr. Dooley" *
* * * * *

wvanhorn@magnus.acs.ohio-state.edu

Date: 01 Jan 94 15:51:00 -0500 (EST)
From: blkcat!1-109-239-0!Gary.Mitchelson@uunet.uu.net
Subject: Wanted- Antenna Mast
To: ham-ant@ucsd.edu

I am looking for a source of telescoping antenna masts in the 25 to 35 foot range.

I have seen them at hamfests and I can kick myself for not having bought one then.

I have seen a couple of different types, they all seem to be surplus, have either a mechanical or hydraulic means of raising and sell for \$100-\$150 in good condition. The bottom sections are around 5" in diameter and the tops are 2" in diameter.

I need one to support a 144 & 432 Mhz quad and a 6M X-Beam.

If anyone knows where I can find one please let me know.

N3JPU

* SLMR 2.1a * Death - nature's way of saying "Slow down"

End of Ham-Ant Digest V93 #160

